

ABSTRACT OF THE DISCLOSURE

A plurality of profile portion divided metal molds 12 surround a profile portion 11a of a supercharger rotor 11 to allow division. A pair of end metal molds 14 and 15 surround both ends of the rotor. A helical core 16 is attached to one end metal mold 14 so as to be helically passed through the profile portion of the rotor. A rotor-shaped cavity 13 is formed inside by the profile portion divided metal molds, and the end metal molds. Hot metal is pressurized, and injected and solidified in the cavity. Then, the end metal mold 14 having the helical core is pulled out by being rotated along a helical line.